SENATORS AND OFFICERS POST-TRAVEL DISCLOSURE OF TRAVEL EXPENSES

Date/Time Stamp:

17 AUG 28 PM 2:45

This disclosure, along with a copy of the Private Sponsor Travel Certification Form and all attachments, MUST be provided to the Office of Public Records, Room 232 of the Hart Building, within 30 days after the travel is completed.

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In compliance with	Rule 35.2(a) and (c),	Ser I	n. Tom Carper	, make the following
in compilation with	144.0 00.11(1) 1.10 (0),		enator/Officer)	, make the following
disclosures with res	spect to travel expense		•	
Private Sponsor(s)	The Aspen (list all):	Institute, Inc. (Co	ongressional Pro	gram)
Aug Travel date(s):	ust 9, 2017-Augus			ough August 19, 2017, for person for with personal funds.)
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•	ying family member (mber/Officer: 🖾 Spor		rper	
	IDENT CHILD, ONLY			EASE DUE TO THE ACCOMPANYING YEE EXPENSES. (Attach additional pages if
	Transportation Expenses	Lodging Expenses	Meal Expenses	Other Expenses (Amount & Description)
☑ Good Faith Estimate ☐ Actual Amount	\$7,052	\$705	\$625	\$1,084 - meeting room expenses and conference fees
Expenses for Acco	mpanying Spouse or	Dependent Child (if applicable)	<u> </u>
	Transportation Expenses	Lodging Expenses	Meal Expenses	Other Expenses (Amount & Description)
☑ Good Faith Estimate ☐ Actual Amount	\$7,052	-0-	\$625	\$1,084- meeting room expenses and conference fees
Provide a descriptinecessary.):	ion of all meetings	and events attende	d. See Senate Rule	35.2(c)(6). (Attach additional pages if
· -	FFICEHOLDER, ANI		TE THE APPEARAI	OVE WAS IN CONNECTION WITH MY NCE THAT I WAS USING PUBLIC
8/	28/17		do	marpen

(Revised 1/3/11)

(Date)

Form RE-3

(Signature of Senator Officer)

Executive Director

Congressional Program

The Honorable Thomas Carper United States Senate Washington, DC 20510

Dear Tom:

I would like to invite you and Martha to participate in a congressional conference on *Energy for America: Opportunities, Challenges, and Solutions*, August 9-15, 2017, in Oslo, Norway, during the August recess. We have limited space and must near from you proactively as soon as possible if you wish to participate.

The energy picture has changed considerably in recent years. Technological advances have expanded production, making the U.S. the world's largest oil producer, which has kept prices down and lessened the role of traditional oil-producing countries. At the same time, efficiencies of scale have made renewable energy use more prominent. Major changes in the auto industry are underway that will have significant impact on energy consumption in the future. All these issues and more will be analyzed in a comprehensive four-day focus reflected on the attached agenda outline, drawing policy examples when appropriate from the experience of Norway, a major oil & gas producer, yet also in the forefront on electric vehicles and renewable energy. The agenda is attached.

We will have a mix of contributors from Norway as well as prominent American and European scholars to assist our discussions. Attendance is by invitation only, with no outside observers, lobbyists, or congressional staff. Funding is provided solely by grants from foundations—no government, individual, corporate or special interest funds are accepted.

Under guidelines established by the Senate Select Ethics Committee, we will provide you with a signed Private Sponsor Travel Certification Form affirming that no lobbyists fund this activity, that the Aspen Institute does not hire or retain lobbyists, and that no lobbyists will be present. Our purpose is education, not advocacy.

This program is designed for Members of both the Senate and the House. Please note that because the House has adopted rules that preclude registered lobbyists from attending our events, if your accompanying spouse of family member is a registered lobbyist, the rules would bar their participation.

Departure will be on Wednesday, August 9th and we will return on Tuesday, August 15th. Should you accept the invitation, it is required that you participate through the duration of the conference.

One Dupont Circle, NW

Suite 700

Washington, DC 20036-1133

/−|

PH 202.736.5825

FX 202.785-2737

www.aspeninstitute.org

The Honorable Thomas Carper March 20, 2017 Page Two

Expenses for you and Martha, including business class airfare on a carrier with whom we have negotiated a fare, lodging and meals will be paid by the Aspen Institute Congressional Program. Under the ethics rules, no expenses are covered for entertainment or recreation. Congressional participants are limited to only one accompanying family member.

The Aspen Institute, an independent, nonprofit organization founded in 1950, provides a nonpartisan, neutral forum for leaders to discuss critical issues. The Institute's Congressional Program is designed to promote leadership on selected public policy issues in the Congress by bringing legislators together with internationally-recognized scholars and analysts in high-level discussion. Since the program's inception, over 410 Members of Congress have participated in the 133 conferences we have conducted.

Enclosed is a fact sheet on the program. In addition to answering any questions you may have, it has proven to be useful in responding to public and press inquiries.

Additionally, we hold breakfast meetings in the Capitol throughout the year to keep Members of Congress up-to-date between our annual conferences. We hope you will be able to participate in the extended educational offerings of our breakfast series.

If you have any questions, please feel free to call me at 202-736-5825. I hope you and Martha will join us for this important conference.

Sincerely,

Dan Glickman

Enclosures

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ENERGY for AMERICA:

Opportunities, Challenges, and Solutions

Agenda overview

THE ASPEN INSTITUTE CONGRESSIONAL PROGRAM
August 9-15, 2017
Oslo, Norway

DRAFT AGENDA OUTLINE

WEDNESDAY, August 9:

American participants travel to Norway

THURSDAY, August 10:

All participants arrive Evening Dinner

FRIDAY, August 11:

Roundtable Discussion (9-11):

HOW A MAJOR OIL COMPANY POSITIONS ITSELF IN A WORLD OF LOW OIL PRICES, CHANGING TECHNOLOGY, AND PUBLIC POLICY DEMANDS Eldar Saetre, CEO, Statoll, Stavanger

Roundtable Discussion (11-1):

ENERGY AND TECHNOLOGY:

WHAT ARE THE BIG TRENDS AND WHAT DO THEY MEAN FOR THE WORLD?

THE STATUS AND PROSPECTS FOR OIL, COAL, NATURAL GAS, SOLAR, WIND, NUCLEAR, & ENERGY EFFICIENCY.

Eric Beinhocker, Executive Director, Institute of the New Economic Thinking, University of Oxford Arun Majumdar, Director, Precourt Institute for Energy,

Stanford University; former Founding Director of Advanced Research Projects Agency-Energy

Luncheon Discussion

NORWAY'S UNIQUE APPROACH TO ENERGY POLICY CHALLENGES

Vidar Helgesen, Norway's Minister of Climate and Environment

Pre-Dinner Remarks

NORWAY'S ROLE IN ENERGY POLICY

Børge Brende, Norway's Foreign Minister

SATURDAY, August 12;

Roundtable Discussion (9-1):

THE INTERNATIONAL FRAMEWORK FOR ENERGY POLICY: THE GEOPOLITICS OF ENERGY, THE CHANGING ROLE OF OPEC, AND ENERGY DIRECTIONS IN EUROPE

Camilla Bausch, Director, Ecologic Institute, Berlin Amy Myers Jaffe, Executive Director, Energy &

Sustainability, UC-Davis

Luncheon Discussion

THE CHANGING GLOBAL ENERGY PICTURE: A CORPORATE VIEWPOINT

Charles O. *Chad" Holliday, Board Chairman, Royal Dutch Shell

SUNDAY, August 13:

Roundtable Discussion (9-11):

POLICIES THAT WORK: HOW TO DESIGN ENERGY POLICIES THAT MEET U.S. GOALS; KEY DESIGN PRINCIPALS TO MAXIMIZE PRODUCTION, EFFICIENCY AND INVESTMENT; AND THE ROLE OF RESEARCH AND DEVELOPMENT

Hal Harvey, Chief Executive Officer, Energy Innovation, San Francisco

Roundtable Discussion (11-1):

THE FUTURE GRID AND HOW TO MAKE IT MORE RELIABLE, CLEANER AND AFFORABLE: LESSONS FROM CALIFORNIA

Steve Berberich, Chief Executive Officer, California Independent System Operator, Folsom, CA

MONDAY, August 14:

Roundtable Discussion (9-1):

TRANSFORMING VEHICLES AND ENERGY NEEDS OF TRANSPORTATION: HOW WILL THE ELECTRIC VEHICLE REVOLUTION PROCEED? CAN TRUCKING FLEETS BE CONVERTED? WHAT IS THE ROLE FOR AUTONOMOUS VEHICLES AND THEIR ENERGY IMPACT?

Ulrich Eichhorn, Director of Research & Development, Volkswagen Group, Wolfsburg, Germany Drew Kodjak, Executive Director, International Council on Clean Transportation, Washington, DC

TUESDAY, August 15: All participants return to USA



The Aspen Institute Congressional Program is a nongovernmental, nonpartisan educational program for members of the U.S. Congress. It provides lawmakers with a stronger grasp of critical public policy issues by convening high-level conferences in which legislators are brought together with internationally recognized academics, experts and leaders to study their ideas and to explore various policy alternatives. Political neutrality is essential to the educational mission of the program. There is no identification with a political or party viewpoint and no endorsement of specific legislation. Its Executive Director is former Agriculture Secretary Dan Glickman and its founder was former Senator Dick Clark. Projects focusing on U.S. policy challenges in 2017 will include: U.S.-Russia Relations, America's Interests in Asia; India's Emergence and Development Challenges, and Energy Policy Opportunities.

- Participation. Since the program's inception, 410 members of Congress (including 35% of the current Congress), 194 international parliamentarians, political and government leaders, and 921 scholar/experts have been involved. Participation is limited to these individuals, their spouses and foundation representatives. No lobbyists, congressional staff or outside observers are permitted.
- Funding. Since its inception, the Congressional Program has been funded solely by established foundations. Funding is not accepted from lobbyists, governments, corporations, private citizens or special interests; and honoraria are not paid to members of Congress or scholars. Legislators feel free to engage openly because of their confidence in the integrity of the program. In 2017, funding is provided by the following foundations: Carnegie Corporation (foundation) of New York, The Democracy Fund, the Ford Foundation, the Bill and Melinda Gates Foundation, the Heising-Simons Foundation, the William and Flora Hewlett Foundation, the Henry Luce Foundation, the John D. and Catherine T. MacArthur Foundation, the Rockefeller Foundation, Rockefeller Brothers Fund, and the Sasakawa Peace Foundation, USA.
- Ethics. The Congressional Program is in full compliance with the rules adopted by the House in 2007, and also conforms to provisions in the "Honest Leadership and Open Government Act of 2007." Lobbyists have no role whatsoever: they do not plan, fund, or participate in program activities. The Aspen Institute does not employ or retain registered lobbyists. All conference agendas are reviewed by the House and Senate ethics committees.
- Venues. Members of Congress face massive demands on their time. Convening conferences outside Washington gives lawmakers an opportunity to devote time, over a four-day period, for serious learning and reflection without interruption. To supplement the annual conferences, 20-25 breakfast meetings are held each year in the Capitol featuring distinguished scholars and international experts with both academic and practical experience on program topics.

Dan Glickman, Executive Director (202) 736-5825 www.aspeninstitute.org/congressional

PRIVATE SPONSOR TRAVEL CERTIFICATION FORM

This form must be completed by any private entity offering to provide travel or reimbursement for travel to Senate Members, officers, or employees (Senate Rule 35, clause 2). Each sponsor of a fact-finding trip must sign the completed form. The trip sponsor(s) must provide a copy of the completed form to each invited Senate traveler, who will then forward it to the Ethics Committee with any other required materials. The trip sponsor(s) should NOT submit the form directly to the Ethics Committee. Please consult the accompanying instructions for more detailed definitions and other key information.

The Senate Member, officer, or employee MUST also provide a copy of this form, along with the appropriate travel authorization and reimbursement form, to the Office of Public Records (OPR), Room 232 of the Hart Building, within thirty (30) days after the travel is completed.

	The Aspen Institute, Inc. (Congressional Program)
<u>2</u> .	Description of the trip: An extensive look at "Energy for America: Opportunities, Challenges & Solutions"
	& changing US energy resources, demands & lessons learned from Norwegian energy policy.
,	Dates of travel; August 9, 2017-August 15, 2017
•	Place of travel: Oslo, Norway
•	Name and title of Senate invitees: Sen. Durbin and Mrs. Durbin; Sen. Carper and Mrs. Carper
	I certify that the trip fits one of the following categories:
	(A) The sponsor(s) are not registered lobbyists or agents of a foreign principal and do not retain or employ registered lobbyists or agents of a foreign principal and no lobbyist or agents of a foreign principal will accompany the Member, officer, or employee at any point throughout the trip.
	(B) The sponsor or sponsors are not registered lobbyists or agents of a foreign principal, but retain or employ one or more registered lobbyists or agents of a foreign principal and the trip meets the requirements of Senate Rule 35.2(a)(2)(A)(i) or (ii) (see question 9).
	I certify that the trip will not be financed in any part by a registered lobbyist or agent of a foreign principal.
	I certify that the sponsor or sponsors will not accept funds or in-kind contributions carmarked directly or indirectly for the purpose of financing this specific trip from a registered lobbyist or agent of a foreign principal or from a private entity that retains or employs one or more registered lobbyists or agents of a foreign principal.
	l certify that:
	The trip will not in any part be planned, organized, requested, or arranged by a registered lobbyist or agent of a foreign principal except for de minimis lobbyist involvement.
	The traveler will not be accompanied on the trip by a registered lobbyist or agent of a foreign principal
	except as provided for by Committee regulations relating to lobbyist accompaniment (see question 9).

	USE ONLY IF YOU CHECKED QUESTION 6(B) I certify that if the sponsor or sponsors retain or employ one or more registered lobbyists or agents of a
	foreign principal, one of the following scenarios applies:
	(A) The trip is for attendance or participation in a one-day event (exclusive of travel time and one overnight stay) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip.
	(B) The trip is for attendance or participation in a one-day event (exclusive of travel time and two overnight stays) and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee on any segment of the trip (see questions 6 and 10).
	(C) The trip is being sponsored only by an organization or organizations designated under § 501(c)(3) of the Internal Revenue Code of 1986 and no registered lobbyists or agents of a foreign principal will accompany the Member, officer, or employee at any point throughout the trip.
١	USE ONLY IF YOU CHECKED QUESTION 9(B)
	If the trip includes two overnight stays, please explain why the second night is practically required for Senate invitees to participate in the travel:
	An itinerary for the trip is attached to this form. I certify that the attached itinerary is a detailed (hour-by-hour), complete, and final itinerary for the trip.
,	by-hour), complete, and final itinerary for the trip.
	Briefly describe the role of each sponsor in organizing and conducting the trip:
	The Aspen Institute Congressional Program (AICP) is the sole sponsor of this conference and developed
•	the agenda, organized the travel, planned the conference, and invited the participants.
E	Briefly describe the stated mission of each sponsor and how the purpose of the trip relates to that mission:
£ 5 10	Aspen Institute, Inc., is a non-profit organization, and its broad mission is conducting nonpartisan it rums and the exchange of ideas; on Issues impacting the United States and the world. The Aspen institute Congressional Program's conference on energy in Oslo is for members of Congress to take an in-depth ook at US energy policy, discussing issues and solutions and applicable lessons learned from Norway's energy policies.
E	Briefly describe each sponsor's prior history of sponsoring congressional trips:
	The Aspen Institute Congressional Program has a 34-year history of conducting non-partisan education
,	Super- resemble to the portion of County Cou

In addition to the conferences, AICP annually offers 25 breakfasts for members of Congress, 5 lunches in							
congressional staff members - each event offering a leading scholar on a key national or international issue. One congressional staff conference per year is offered on a key foreign or domestic issue.							
	Cransportation:	Lodging	Ment Ampenses	O that?			
Good Faith estimate	\$5,000 for the senator \$5,000 for the	\$704 for the senator \$0 for the	\$625 for the senator; \$625 for the spouse	\$1,084 meetin room expenses conf. fees for the senator			
Actual Amounts	spouse	spouse	Meal expenses are \$125 per person per day	\$1,084 meetin room expense & conf. fees to the spouse			
articipation or b) the	rip involves an event the trip involves an event eation:	at is arranged or organithat is arranged or org	nized without regard ganized specifically w	to congressional vith regard to			
carticipation or b) the congressional participation for the conference is org	trip involves an event	that is arranged or org	ganized specifically w	to congressional			
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participation or b) the congressional particip. The conference is org. Reason for selecting the Norway is at the foreful Norway is at the foreful Norway is acholars at the conference is org.	trip involves an event lation: lanized specifically with the location of the even ront of innovative energy and experts to provide a hotel or other lodging	that is arranged or organized to congression to trip gy strategies and mee an in-depth analysis of	nal participation.	participation of			
participation or b) the congressional particip. The conference is org. Reason for selecting the Norway is at the forein. Norweglan scholars at the forein. Norweglan scholars at the forein. When the selection of the Grand Hotel - Oslo, Norweglan scholars. Reason(s) for selecting the conference is org.	trip involves an event lation: lanized specifically with the location of the even ront of innovative energy and experts to provide a hotel or other lodging	that is arranged or organization regard to congression to trip gy strategies and mee an in-depth analysis of facility:	nal participation. ting there facilitates participation.	participation of			

Describe how the daily expenses for lodging, meals, and other expenses provided to trip participants compares to the maximum per diem rates for official Federal Government travel:				
Lodging and meals are both under the published per diem rates for this time period.				
Describe the type and class of transportation being provided. Indicate whether coach, business-class or first class transportation will be provided. If first-class fare is being provided, please explain why first-class travel is necessary:				
Roundtrip business class flights on a commercial airline carrier				
I represent that the travel expenses that will be paid for or reimbursed to Senate invitees do not include expenditures for recreational activities, alcohol, or entertainment (other than entertainment provided to all attendees as an integral part of the event, as permissible under Senate Rule 35). List any entertainment that will be provided to, paid for, or reimbursed to Senate invitees and explain why the entertainment is an integral part of the event: None				
I hereby certify that the information continued herein is true, complete and correct. (You must include the completed signature block below for each travel sponsor.):				
Signature of Travel Sponsor: Manual Manua				
Name and Title: The Aspen Institute, Inc. (Congressional Program)				
Address: 1 Dupont Circle, NW, Suite 700, Washington, DC 20036				
Telephone Number: 202-736-5859 (Lisa Jones)				
l'ax Number:				
E-mail Address: lisa.jones@aspeninst.org				

Appendix to Private Sponsor Travel Certification Form

Aspen Institute Congressional Program - Energy Conference - Aug. 9-15, 2017

Question 1. Sponsor(s) of the trip (please list all sponsors) – The Aspen Institute, Inc. (Congressional Program)

Aspen Institute is the sole sponsor of this energy conference. The organization has received general support and unrestricted funds from The Henry Luce Foundation, Democracy Fund foundation, Rockefeller Brothers Fund foundation, the John D. and Catherine T. MacArthur Foundation. These foundation funds were not earmarked for a specific trip.

Question 14. On occasion, other policy and public programs of the Aspen Institute sponsor trips that involve members of Congress or congressional staff.

Question 15. The Aspen Institute holds numerous educational activities, including conferences, roundtables, briefings and other nonpartisan forums on critical issues facing the U.S. and the world.

Question 16.

Daily breakdown of meeting room expenses and conference service fees for the total of \$1,084:

Aug. 11 - \$271

Aug. 12 - \$271

Aug. 13 - \$271

Aug. 14 - \$271

ENERGY FOR AMERICA: OPPORTUNITIES, CHALLENGES, AND SOLUTIONS

Agenda overview as of 7/10/2017 THE ASPEN INSTITUTE CONGRESSIONAL PROGRAM

August 9-15, 2017 Oslo, Norway

WEDNESDAY, August 9:

American participants depart the USA

Sen. Tom Carper and Mrs. Carper depart Newark at 6:55 pm on Scandinavian Airlines 908.

THURSDAY, August 10:

All participants arrive in Oslo between 12:00-4:30 pm. Sen. Tom Carper and Mrs. Carper arrive Oslo at 8:20 am.

6:30-8:30 pm We

Working Dinner

Seating is arranged to expose participants to a diverse range of views and provide opportunity for a meaningful exchange of ideas. Scholars and lawmakers are rotated daily. Discussion will focus on the opportunities,

challenges and potential solutions regarding energy policy.

FRIDAY, August 11:

7:30-9:00 am Breakfast is available to all participants

8:00 am Scholars-Only Breakfast Meeting to Review Conference Format

9:00 am INTRODUCTION AND FRAMEWORK OF THE CONFERENCE

Dan Glickman, Executive Director, Aspen Institute Congressional Program

9:15 am Roundtable Discussion

HOW A MAJOR OIL COMPANY POSITIONS ITSELF IN A WORLD OF LOW OIL PRICES, RAPIDLY CHANGING TECHNOLOGY, AND PUBLIC POLICY DEMANDS

Statoil is one of the world's largest and most successful oil companies, with outstanding technological and operating resources, and special skills and experience in deep offshore oil. The government of Norway is a majority shareholder. But it is facing major challenges, as oil prices have been soft for years, demand in many nations seems to have peaked, and the world is moving to low-carbon energy sources. Indicative of changing trends, Statoil, which has investments in off-shore wind generation, recently announced that it would increase investments in renewables from 5% to 15-20% of its mix.

- How can Statoil prosper in a low oil price world?
- What role do oil companies have in renewable energy?
- Is "peak oil" real? Will it be driven by peak demand or peak supply?

- Will all of the world's oil eventually be consumed? Does it matter
 if a proportion of the world's oil will be "stranded"—left in the
 ground?
- How is Statoil positioning for the future given the low price of oil and the growing demand for low-carbon energy?
- What is Statoil's perspective on climate change?

Eldar Saetre, CEO, Statoil, Stavanger, Norway

11:00 am

Break

11:15 am

Roundtable Discussion

ENERGY AND TECHNOLOGY:

WHAT ARE THE BIG TRENDS AND WHAT DO THEY MEAN FOR THE WORLD?

WHAT ARE THE STATUS AND PROSPECTS FOR OIL, NATURAL GAS, COAL, SOLAR, WIND, NUCLEAR, & ENERGY EFFICIENCY?

Our energy options depend on our technology: A diverse menu of technologies provides a rich menu of choices of energy for transportation, electricity, home heating, and industry. Technology development depends on a complex mixture of (a) market demand; (b) public policy; (c) government and private research & development (R&D); and (d) innovation ecosystems.

- What are the trends in technology development—in conventional and new energy sources; and are they driven by the private sector or by government-sponsored research?
- How do technology prices differ in character from commodity prices? What are the implications of recent price trends?
- How have today's energy technologies been impacted by public policy—including, e.g., directional drilling, fracking, nuclear power, solar, and wind.
- What policy strategies can rapidly accelerate new energy technology? What are the most fruitful or necessary new frontiers in energy technology?
- What are the best practices for federal energy R&D? What is working? What is missing? Are the magnitudes correct? Can federal policy incentivize privately funded research?
- How can utilities effectively deal with the intermittency issue of supply of renewable power (depending on the wind and the sun), given the constant demand for electricity from consumers?
- How crucial is development of better battery storage power to a successful Electric Vehicle (EV) evolution, and does this have promise?

- Will technology provide a gateway for clean coal and carbon sequestration?
- Why is nuclear power on the decline in the U.S. while its use is expanding in Asia?

Eric Beinhocker, Executive Director, Institute of the New Economic Thinking, University of Oxford

Arun Majumdar, Director, Precourt Institute for Energy, Stanford University; former Founding Director of Advanced Research Projects Agency-Energy

1:00-2:30 pm

Working Luncheon

NORWAY'S UNIQUE APPROACH TO ENERGY POLICY **CHALLENGES**

Norway has made a series of deliberate moves to decarbonize and strengthen its economy at the same time, and has also played an outsized role in global efforts to reduce deforestation. Norway's grid is now 95% carbon-free, its building stock is the most efficient (for new construction) in the world, and its adoption of electric vehicles is now the highest. The country's sovereign wealth fund, created by its oil resources, has had a significant impact in these developments. These policies, and Norway's international engagement, have allowed the country to prosper as it drives an energy transition.

Vidar Heigesen, Norway's Minister of Climate and Environment

3:00-4:30 pm

Individual Discussions

Members of Congress and scholars meet individually to discuss U.S. energy policy. Scholars available to meet individually with members of Congress for in-depth discussion of ideas raised in the morning and luncheon sessions include Eldar Saetre, Eric Beinhocker, Arun Majumdar and Vidar Helgesen.

6:30-8:30 pm

Working Dinner

Scholars and members of Congress will explore topics covered in the conference. Seating is arranged to expose participants to a diverse range of views and provide opportunity for a meaningful exchange of ideas. Scholars and lawmakers are rotated daily. Scholars will discuss with members of Congress their perspective on the successes and failures of Norway's energy policies and anticipated trends in technology and

energy.

SATURDAY, August 12:

7:30-9:00 am

Breakfast is available to all participants

THE INTERNATIONAL FRAMEWORK-FOR-ENERGY-POLICY: THE GEOPOLITICS OF ENERGY, THE CHANGING ROLE OF OPEC, AND ENERGY DIRECTIONS IN EUROPE

Energy can be a cause of both serious economic and national security challenges. The U.S. has suffered recessions from oil embargos and high energy prices, and our national security has been vulnerable to our dependence on Mideast oil. America's appetite for foreign oil has also been a financial lifeline for some unsavory groups and governments. The U.S. has also at times made low cost oil or electricity an economic asset. Europe has a complicated mix of European Union-wide and national energy policies, along with liberalizing energy markets and strong climate targets, and some of these policies may provide applicable lessons for the U.S.

- What are the strategic implications of the current approach to energy policy in the U.S., and how can we better position America in the future?
- How is the EU-wide energy trend working out? Is the Energiewende (Germany's energy transition) working, or not?
- How are the geopolitics of energy evolving?
- What kind of energy mix best positions the U.S. economy going forward?
- Has the U.S. already achieved energy independence, and if so, how? Is this sustainable? What are the global implications?
- How have oil imports affected the U.S. strategic position in the Middle East?
- How are U.S. military operations affected by military oil consumptionboth in terms of supply chain logistics and vulnerabilities?
- How will U.S. military capabilities be affected by rising sea levels?
- What are the human migration/ refugee implications of climate change, and how will they affect the political order?
- Is the EU carbon trading system working and are there lessons to be learned?
- Do the Paris climate accords drive energy policy?

Amy Myers Jaffe, Executive Director, Energy & Sustainability, UC-Davis

Camilla Bausch, Director, Ecologic Institute, Berlin

11:00 am

Break

11:15 am

Roundtable Discussion Continues

1:00-2:30 pm

Working Luncheon

THE CHANGING GLOBAL ENERGY PICTURE: A CORPORATE VIEWPOINT

Shell Oil, the world's second largest publicly traded energy company, faces the dual challenge of weak oil prices and a global demand for new fuels and methods of transportation, including the growth of electric vehicles. How will this oil company evolve? What is the appropriate role for an oil company in this complex environment? How do Shell scenarios position the company for a robust future?

Charles O. "Chad" Holliday, Board Chairman, Royal Dutch Shell

3:00-4:30 pm

Individual Discussions

Members of Congress and scholars meet individually to discuss U.S. energy policy. Scholars available to meet individually with members of Congress for in-depth discussion of ideas raised in the morning and luncheon sessions include Camilla Bausch, Amy Myers Jaffe, and Charles O. "Chad" Holliday.

6:30-8:30 pm

Working Dinner

Seating is arranged to expose participants to a diverse range of views and provide opportunity for a meaningful exchange of ideas. Scholars and lawmakers are rotated daily. Scholars will discuss with Members of Congress the impact of OPEC, and the changing dynamics of energy sources and energy needs.

SUNDAY, August 13:

7:30-8:55 am

Breakfast is available to all participants

9:00 am

Roundtable Discussion

POLICIES THAT WORK:

HOW TO DESIGN ENERGY POLICIES THAT MEET U.S. GOALS; KEY DESIGN PRINCIPALS TO MAXIMIZE PRODUCTION,

EFFICIENCY AND INVESTMENT;

AND THE ROLE OF RESEARCH AND DEVELOPMENT

Our energy future is deeply affected by government policy. The U.S. has a complex mix of federal policy, and 50 more brands of state policy—with many inconsistencies and inefficiencies. What kind of policy maximizes the power of the market, accelerates technology, and enables the country to meet its goals of reliable, affordable, and clean energy?

- How can energy policy be set for key national goals rather than to favor one or another technology?
- Many technologies, such as advanced nuclear or fuel cells, are currently non-competitive, but could become so if their prices

- drop through R&D and early deployment. How should such "learning curves" inform policy?
- How should government subsidies be structured for new technologies so that they can be weaned as quickly as possible? Are subsidies for traditional energy sources still needed? For solar and wind?
- What kinds of performance standards are the best for meeting national policy? Is this an appropriate federal or state role?
- What is the right role for pricing—in the form of taxes, or subsidies, including for example a carbon tax?
- What is the appropriate role for states in energy policy?
- How can the federal government help (or avoid hindering) good state policy?

Hal Harvey, Chief Executive Officer, Energy Innovation, San Francisco

11:00 am

Break

11:15 am

Roundtable Discussion

THE FUTURE GRID AND HOW TO MAKE IT MORE RELIABLE, CLEANER AND AFFORABLE: LESSONS FROM CALIFORNIA

The power mix on the national grid is changing rapidly. By 2030, for example, both New York and California will be 50 percent renewables; adding in existing hydro and nuclear will make them 65 percent carbon-free. Variable energy sources require a new operating paradigm. There are some great technologies and techniques—including new power markets—that can help. But these will often require both new wholesale electricity markets, and new business models for utilities.

- Is the national grid vulnerable to technical failure or sabotage?
- Does the national grid need an upgrade? If so, what are the roles and responsibilities of utilities and government?
- What are the trends for power supply in California? In the U.S.?
 Are brown-outs on the horizon?
- What are the new challenges faced from a growing renewable energy mix?
- Can the grid run on 50 percent renewable energy? More?
- Are there new technologies that will help manage large-scale renewables? Demand-response? Efficiency? Better grids? Fast-ramping fossil? Batteries or other electricity storage?
- Do wholesale electricity markets need to be restructured?
- If so, what can the federal government do to enable this transition?

Steve Berberich, Chief Executive Officer, California Independent System Operator, Folsom, CA

1:00-2:00 pm Working Luncheon

Discussion continues between members of Congress and scholars on the

challenges for the U.S. energy policy.

2:30-4:00 pm Individual Discussions

Members of Congress and scholars meet individually to discuss U.S. energy policy. Scholars available to meet individually with members of Congress for in-depth discussion of ideas raised in the morning and

luncheon sessions include Hal Harvey and Steve Berberich.

6:30-8:30 pm Working Dinner

Scholars and members of Congress will explore topics covered in the conference. Seating is arranged to expose participants to a diverse range of views and provide opportunity for a meaningful exchange of ideas. Scholars and lawmakers are rotated daily. Scholars and Members of Congress will discuss designing policies to achieve US energy goals and

how to have a reliable and cleaner grid in the future.

MONDAY, August 14:

7:00-8:00 am Breakfast is available

8:00 am Breakfast Discussion

NORWAY'S ROLE IN ENERGY POLICY

Norway is uniquely positioned to be a world leader in innovative energy policy. Creation of its sovereign wealth fund, which draws revenue from off-shore oil production, has been a source of funding to spark innovative approaches to energy policy, leading to a substantial increase in the mix of renewables as well as advanced development of electric vehicles.

Børge Brende, Norway's Foreign Minister

9:00 am Roundtable Discussion

TRANSFORMING VEHICLES AND ENERGY NEEDS OF

TRANSPORTATION:

HOW WILL THE ELECTRIC VEHICLE REVOLUTION PROCEED?

The auto industry is in the midst of two revolutions at once: electrification and self-driving vehicles. And both are in the context of public health demands for lower conventional pollution, and global demands for lower greenhouse gas emissions. How will this unfold? What is the role for federal policy? With millions of drivers wasting hundreds of hours

10.30 am

annually stuck in traffic congestion, there must be more sensible, energy efficient means to move around.

- -•—How-fast-is-electrification of-vehicles-really-moving?—What-are-the-----hindrances, opportunities, economic and policy challenges?
- Can trucking fleets be converted?
- What is the role for autonomous vehicles and their energy impact?
- Will self-driven cars reduce or increase congestion, pollution, and greenhouse gases?
- How can the auto industry be moved toward a set of real-world emissions standards, and away from the test-focused approach we now follow, with all the defects of those approaches?
- Will the auto industry survive the invasion of Google, Uber, and Apple? Can auto companies keep up with the technological change?
- Will the auto companies face further consolidation?
- What is the role of China, the world's largest auto market, in this transition?
- How essential is required advances in battery technology for wide adoption of electric vehicles? Is installation of a new system of charging stations feasible, and will industry take this on?
- Does the government have a role in incentivizing or accelerating the shift toward these new paradigms? Do federal and state tax credits for electric vehicles make sense? Should electric car owners pay more fees to support infrastructure since they pay less gas taxes? States are reducing their incentives for electric cars—will this affect demand?
- What role do CAFÉ standards play in these changes?
- How can the federal government build a set of policies that give clear signals to automakers, steadily drive down pollution, promote new technology, and protect the consumer?

Ulrich Eichhorn, Director of Research & Development,
Volkswagen Group, Wolfsburg, Germany
Drew Kodjak, Executive Director,
International Council on Clean Transportation, Washington, DC

10.50 am	' Break
10:45 am	Roundtable Discussion Continues
12:30-1:30 pm	POLICY REFLECTIONS FROM MEMBERS OF CONGRESS
1:30-2:30 pm	Working Luncheon

Drook

Discussion continues between members of Congress and scholars on the challenges for the U.S. policy on energy and environmental issues.

3:00-4:30 pm

Individual Discussions

Members of Congress and scholars meet individually to discuss U.S. energy policy. Scholars available to meet individually with members of Congress for in-depth discussion of ideas raised in the morning and luncheon sessions include Ulrich Eichhorn and Drew Kodjack.

6:30-8:30 pm

Working Dinner

Scholars and members of Congress will explore topics covered in the conference. Seating is arranged to expose participants to a diverse range of views and provide opportunity for a meaningful exchange of ideas. Scholars and lawmakers are rotated daily. Scholars and Members of Congress will discuss the electrification revolution of automobiles as well

as other key topics discussed during the conference.

TUESDAY, August 15:

US Participants return to the United States Flights to the US depart between 10 am and 2 pm. Sen. Tom Carper and Mrs. Carper continue travel at personal expense.

WEDNESDAY, August 16:

Sen. Tom Carper and Mrs. Carper continue travel at personal expense.

THURSDAY, August 17:

Sen. Tom Carper and Mrs. Carper continue travel at personal expense.

FRIDAY, August 18:

Sen. Tom Carper and Mrs. Carper continue travel at personal expense.

SATURDAY, August 19:

Sen. Tom Carper and Mrs. Carper depart Oslo at 11:10 am on Scandinavian Airlines 907 and arrive in Newark at 1:15 pm.